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1. (Amended) A disposable pull-on undergarment which comprises:

a liquid pervious top sheet;

a liquid impervious back sheet;

an liquid absorbent core interposed between the top and back sheets;

front and rear waist-encircling regions opposed to each other and having longitudinal side edges that are joined together, at least one of said front and rear waist-encircling regions being elastically contractible in a waist-encircling direction;

a crotch region positioned between the front and rear waist-encircling regions;

a waist-encircling opening; and

a pair of leg-encircling openings,

said front and rear waist-encircling regions each comprising:

first elasticized zones which extend in the waist-encircling direction between each of the joined side edges of the front and rear waist-encircling regions and an adjacent side edge of the liquid absorbent core; and

a second elasticized zone which traverses a width of the liquid absorbent core and extends in the waist-encircling direction between opposite side edges of the liquid absorbent core,

the first and second elasticized zones being adjacent to one another in the waist-encircling direction and the first elasticized zones having a tensile stress that is greater than a tensile stress of the second elasticized zone.

2. (Amended) The disposable pull-on undergarment of Claim 1, further comprising:

waist elastic members extending in the waist-encircling direction that are attached in an extended condition to an edge portion of the waist-encircling opening; and

a plurality of auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first and second elasticized zones, said plurality of auxiliary elastic members being attached in an extended condition to a location between the waist elastic members and the edge portions of the leg-encircling openings,

a tensile stress of the auxiliary elastic members being greater in the first elasticized zones than in the second elasticized zone.

3. (Amended) The disposable pull-on undergarment of Claim 1, further comprising:

waist elastic members extending in the waist-encircling direction that are attached in an extended condition to an edge portion of the waist-encircling opening;

a plurality of first auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first and second elasticized zones, which plurality of first auxiliary elastic members are attached in an extended condition to a location intermediate between the waist elastic members and the edge portions of the leg-encircling openings; and

a plurality of second auxiliary elastic members spaced longitudinally apart from each other and extending in the waist-encircling direction in the first elasticized zones that are attached in an extended condition to a location intermediate between the waist elastic members and the edge portions of the leg-encircling openings,

a tensile stress of the first auxiliary elastic members being smaller than or equal to a

tensile stress of the second auxiliary elastic members.

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4. (Amended) The disposable pull-on undergarment of Claim 1, wherein said first elasticized zones when extended to a maximum extent exhibit an extension stress in a range of 0.2 to 2.0 N/25 mm and said second elasticized zone when extended to a maximum extent exhibits an extension stress in a range of 0.1 to 0.6 N/25 mm.